



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: Dougherty et al.

Application No. 09/595,580

Filed: June 15, 2000

Confirmation No. 9988

For: QUANTIFYING GENE RELATEDNESS
VIA NONLINEAR PREDICTION OF
GENE EXPRESSION LEVELS

Examiner: Lori A. Clow

Art Unit: 1631

Attorney Reference No. 4239-54279-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney or Agent
for Applicant(s)

G. L. Maurer

Date Mailed August 30, 2006

TRANSMITTAL LETTER

Enclosed for filing in the application referenced above are the following:

- ☒ Request for Certificate of Correction (all errors attributable to PTO)
- ☒ Certificate of Correction (in duplicate)
- ☒ The Director is hereby authorized to charge any additional fees that may be required, or credit over-payment, to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 595-5300
Facsimile: (503) 595-5301

By

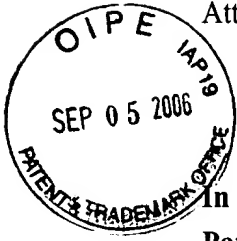
G. L. Maurer

Gregory L. Maurer
Registration No. 43,781

cc: Docketing

Certificate
SEP 08 2006
of Correction

Attorney Matter No. 4239-54279-01



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Dougherty et al.

Date Mailed August 30, 2006

Patent No. 7,003,403

Issued: February 21, 2006

Application No. 09/595,580

Filed: June 15, 2000

Confirmation No. 9988

For: QUANTIFYING GENE RELATEDNESS
VIA NONLINEAR PREDICTION OF
GENE EXPRESSION LEVELS

Examiner: Lori A. Clow

Art Unit: 1631

Attorney Reference No. 4239-54279-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

The following printing errors were noted in comparing the printed patent with the papers in the attorneys' files:

In the Title Page:

Item [54], **Title**, "QUANTIFYING GENE RELATEDNESS VIA NONLINEAR PREDICTION OF GENE" should read --QUANTIFYING GENE RELATEDNESS VIA NONLINEAR PREDICTION OF GENE EXPRESSION LEVELS--, as shown on page 1, line 2 of the Application as filed.

Item [75], **Inventors**, the following inventor has been omitted from the printed patent: --**Krishnamoorthy Sivakumar**, Pullman, WA (India)-- as shown on the Corrected Filing Receipt dated August 16, 2001.

08

In the Specification:

In column 10, lines 17-18, in TABLE 3, " y_{27} " should be listed below the column header " Y_{pred} ", as shown on page 15, line 25, in TABLE 3, of the Application as filed.

In column 11, line 39, "presented" should read --presented.--, as shown on page 2, line 3, of the Amendment filed on August 11, 2005.

In column 11, line 43, "150c" should read --1150c--, as shown on page 2, line 6, of the Amendment filed on August 11, 2005.

In column 16, line 21, " $\epsilon_{con,n}$ " should read -- $\epsilon_{con,n}$ --, as shown on page 25, line 1 of the Application as filed.

In column 16, line 24, " $[\epsilon_{con,n}]$ " should read -- $[\epsilon_{con,n}]$ --, as shown on page 25, line 2 of the Application as filed.

In column 16, line 25, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --, as shown on page 25, line 3 of the Application as filed.

In column 16, line 25, " $[\epsilon_{con,n}]$ " should read -- $[\epsilon_{con,n}]$ --, as shown on page 25, line 3 of the Application as filed.

In column 16, line 28, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --, as shown on page 25, line 5 of the Application as filed.

In column 16, line 30, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --, as shown on page 25, line 6 of the Application as filed.

In column 16, line 32, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --, as shown on page 25, line 8 of the Application as filed.

In column 16, line 36, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --, as shown on page 25, line 10 of the Application as filed.

In column 16, line 38, " $\approx \epsilon_{con,n}$ " should read -- $\approx \epsilon_{con,n}$ --, as shown on page 25, line 12 of the Application as filed.

In column 16, line 41, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --, as shown on page 25, line 13 of the Application as filed.

SEP 08 2006

In column 16, line 49, " $E[\epsilon_{con,n}]$ " should read $--E[\epsilon_{con,n}]--$, as shown on page 25, line 19 of the Application as filed.

In column 16, line 50, " $E[\epsilon_{con,n}]$ " should read $--E[\epsilon_{con,n}]--$, as shown on page 25, line 20 of the Application as filed.

In column 16, line 50, " N_2 " should read $--N_1--$, as shown on page 25, line 20 of the Application as filed.

In column 16, line 51, " $E[\epsilon_{con,n}]$ " should read $--E[\epsilon_{con,n}]--$, as shown on page 25, line 20 of the Application as filed.

In column 17, line 37, " $E[\epsilon_n] < \theta_{opt}$ " should read $--yield E[\theta_n] < \theta_{opt}--$, as shown on page 26, line 27 of the Application as filed.

In column 17, line 39, " $\epsilon_{con,n}$ " should read $--\epsilon_{con,n}--$, as shown on page 26, line 29 of the Application as filed.

In column 17, line 40, " $\epsilon_{con,n}$ " should read $--\theta_{con,n}--$, as shown on page 26, line 29 of the Application as filed.

In column 17, line 46, " $[\theta_{con,n}]$ " should read $--[\theta_{con,n}]--$, as shown on page 27, line 3 of the Application as filed.

In column 21, "TABLE 4-continued", at row 20 K562, "0 0 0 0 -1 0 0 0 1 0" should read $--0 0 0 0 -1 0 0 1 0 0--$, as shown on page 30, "Table 4" at row 20 K562 of the application as filed.

In column 21, line 55, "PC 1" should read $--PC1--$, as shown on page 31, line 22 of the Application as filed.

In column 25, lines 14-15, the following paragraph was omitted from the printed patent: $--A$ set of two planes defines the perceptron and will separate the groups of colored spheres into three regions, where each region contains spheres of the same color. The display can be rotated. $--$, as shown on page 36, lines 16-18 of the Application as filed.



In the Claims:

In Claim 65, column 35, line 17, "claim **56**" should read --claim **63**--, as shown on page 19, claim 94, of the Amendment as filed on December 16, 2004.


All of the above errors are attributable to the Patent Office, and a Certificate of Correction is enclosed in duplicate to make formal notice of the errors in the referenced patent.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 595-5300
Facsimile: (503) 595-5301

By



Gregory L. Maurer
Registration No. 43,781

cc: Docketing

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,003,403

DATED : February 21, 2006

INVENTOR(S) : Dougherty et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page

Item [54], Title, "QUANTIFYING GENE RELATEDNESS VIA NONLINEAR PREDICTION OF GENE" should read --QUANTIFYING GENE RELATEDNESS VIA NONLINEAR PREDICTION OF GENE EXPRESSION LEVELS--.

Item [75], Inventors, the following inventor has been omitted from the printed patent: --**Krishnamoorthy Sivakumar**, Pullman, WA (India)--.

Column 10

Lines 17-18, in TABLE 3, " \dots " should be listed below the column header " Y_{pred} ".
 Y_{27}

Column 11

Line 39, "presented" should read --presented.--.

Line 43, "150c" should read --1150c--

Column 16

Line 21, " $\epsilon_{con,n}$ " should read -- $\epsilon_{con,n}$ --.

Line 24, " $[\epsilon_{con,n}]$ " should read -- $[\epsilon_{con,n}]$ --.

Line 25, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 25, " $[\epsilon_{con,n}]$ " should read -- $[\epsilon_{con,n}]$ --.

Line 28, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 30, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 32, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 36, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 38, " $\approx \epsilon_{con,n}$ " should read -- $\approx \epsilon_{con,n}$ --.

Line 41, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 49, " $E[\epsilon_{con,n}]$ " should read -- $E[\epsilon_{con,n}]$ --.

Line 50, " $E[\epsilon_{con,n}]$ " should read -- $E[\epsilon_{con,n}]$ --.

Line 50, " N_2 " should read -- N_1 --.

Line 51, " $E[\epsilon_{con,n}]$ " should read -- $E[\epsilon_{con,n}]$ --.

Column 17

Line 37, " $E[\epsilon_n] < \theta_{opt}$ " should read --yield $E[\theta_n] < \theta_{opt}$ --.

Line 39, " $\epsilon_{con,n}$ " should read -- $\epsilon_{con,n}$ --.

Line 40, " $\epsilon_{con,n}$ " should read -- $\theta_{con,n}$ --.

Line 46, " $[\theta_{con,n}]$ " should read -- $[\theta_{con,n}]$ --.

Column 21

"TABLE 4-continued", at row 20 K562, "0 0 0 0 -1 0 0 0 1 0" should read --0 0 0 0 -1 0 0 1 0 0--.

Line 55, "PC 1" should read --PC1--.

MAILING ADDRESS OF SENDER:

Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 7,003,403

No. of add'l copies _____
(@ .30 per page)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,003,403

DATED : February 21, 2006

INVENTOR(S) : Dougherty et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 25

Lines 14-15, the following paragraph was omitted from the printed patent: --A set of two planes defines the perceptron and will separate the groups of colored spheres into three regions, where each region contains spheres of the same color. The display can be rotated.--

Column 35

In Claim 65, Line 17, "claim 56" should read --claim 63--.

MAILING ADDRESS OF SENDER:

Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 7,003,403

No. of add'l copies _____
(@ .30 per page)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,003,403

DATED : February 21, 2006

INVENTOR(S) : Dougherty et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page

Item [54], Title, "QUANTIFYING GENE RELATEDNESS VIA NONLINEAR PREDICTION OF GENE" should read --QUANTIFYING GENE RELATEDNESS VIA NONLINEAR PREDICTION OF GENE EXPRESSION LEVELS--.

Item [75], Inventors, the following inventor has been omitted from the printed patent: --**Krishnamoorthy Sivakumar**, Pullman, WA (India)--.

Column 10

Lines 17-18, in TABLE 3, " \dots " should be listed below the column header " Y_{pred} ".
 Y_{27}

Column 11

Line 39, "presented" should read --presented.--.

Line 43, "150c" should read --1150c--.

Column 16

Line 21, " $\epsilon_{con,n}$ " should read -- $\epsilon_{con,n}$ --.

Line 24, " $[\epsilon_{con,n}]$ " should read -- $[\epsilon_{con,n}]$ --.

Line 25, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 25, " $[\epsilon_{con,n}]$ " should read -- $[\epsilon_{con,n}]$ --.

Line 28, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 30, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 32, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 36, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 38, " $\approx \epsilon_{con,n}$ " should read -- $\approx \epsilon_{con,n}$ --.

Line 41, " $\delta_{con,n}$ " should read -- $\delta_{con,n}$ --.

Line 49, " $E[\epsilon_{con,n}]$ " should read -- $E[\epsilon_{con,n}]$ --.

Line 50, " $E[\epsilon_{con,n}]$ " should read -- $E[\epsilon_{con,n}]$ --.

Line 50, " N_2 " should read -- N_1 --.

Line 51, " $E[\epsilon_{con,n}]$ " should read -- $E[\epsilon_{con,n}]$ --.

Column 17

Line 37, " $E[\epsilon_n] < \theta_{opt}$ " should read --yield $E[\theta_n] < \theta_{opt}$ --.

Line 39, " $\epsilon_{con,n}$ " should read -- $\epsilon_{con,n}$ --.

Line 40, " $\epsilon_{con,n}$ " should read -- $\theta_{con,n}$ --.

Line 46, " $[\theta_{con,n}]$ " should read -- $[\theta_{con,n}]$ --.

Column 21

"TABLE 4-continued", at row 20 K562, "0 0 0 0 -1 0 0 0 1 0" should read --0 0 0 0 -1 0 0 1 0 0--.

Line 55, "PC 1" should read --PC1--.

MAILING ADDRESS OF SENDER:

Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 7,003,403

No. of add'l copies _____
(@ .30 per page)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,003,403

DATED : February 21, 2006

INVENTOR(S) : Dougherty et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 25

Lines 14-15, the following paragraph was omitted from the printed patent: --A set of two planes defines the perceptron and will separate the groups of colored spheres into three regions, where each region contains spheres of the same color. The display can be rotated.--

Column 35

In Claim 65, Line 17, "claim 56" should read --claim 63--.

MAILING ADDRESS OF SENDER:

Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 SW Salmon Street
Portland, Oregon 97204

PATENT NO. 7,003,403

No. of add'l copies _____
(@ .30 per page)